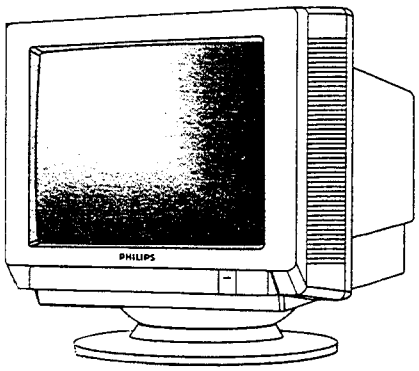
14" VGA Monochrome Monitor 7BM749/00T/05T/06T/75T

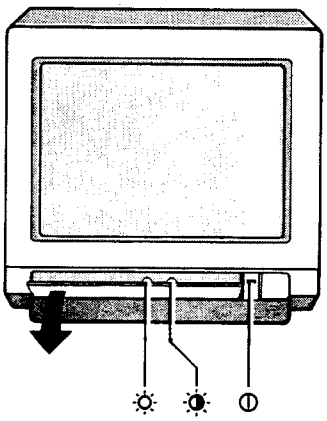
Service
Service
Service

VERSION 2

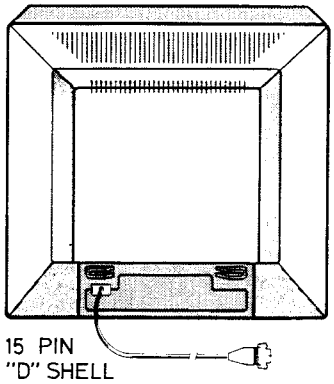


Service Manual

Horizontal frequencies
31.5 kHz

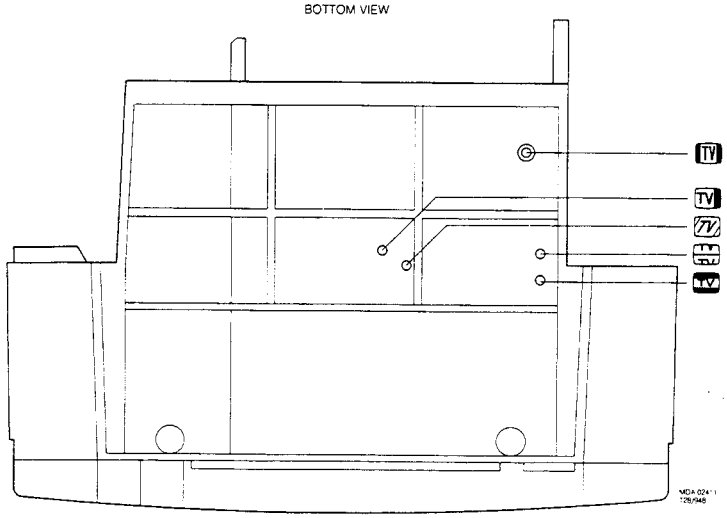


45 180 A11



45 181 A11

BOTTOM VIEW



Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Servicio

Subject to modification
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PHILIPS

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Consumer Electronics

PCS 43 188 GB

TECHNICAL DATA

Mains voltage	230V ± 15% , 50Hz
Power consumption	30W
EHT	13.5-14.5 kV
Line frequency	31.467 kHz
Frame frequency	60/70 Hz
Weight	7 kg
Dimensions (WxDxH)	330x310x303 mm

Input spec's

Analogue video	0.7 Vpp
Hor. sync TTL	pos/neg
Vert. sync TTL	pos/neg
Character display	80x25

Resolution

Bandwidth	30 MHz
Horizontal	720 pixels
Vertical	480 pixels
Picture tube	M32EBL2WD

WARNING

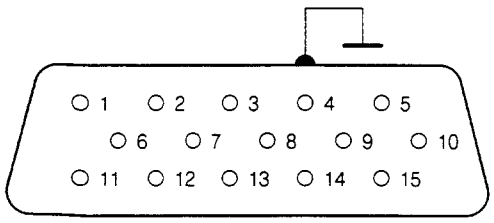
ESD

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

NOTES

1. Defective safety components must be replaced by the types specified in the list of electrical parts.
   These components are labelled with the symbol ⚠ ⏥
2. When the picture tube is being replaced, safety glasses must be worn.
3. Safety regulations require that the set be restored to its original state and that therefore components are used which are identical with the components replaced.
4. The semi-conductors, mentioned in the circuit diagram and the parts list and the semi-conductors in the monitor are interchangeable per item in this chassis irrespective of the type designation on these semi-conductors.

15 pin mini-type "D" shell connector



PIN	SIGNAL	SENSITIVITY	IMPEDANCE
1	N.C.		
2	VIDEO	Analogue 0,7Vpp	75Ω
3	N.C.		
4	N.C.		
5	N.C.		
6	N.C.		
7	⊥		
8	N.C.		
9	N.C.		
10	⊥		
11	N.C.		
12	⊥		
13	HOR.SYNC.	TTL L= 0-0,5V H= 2,5-5,5V +/- Polarity	
14	VER.SYNC.		
15	N.C.		

MECHANICAL INSTRUCTIONS

1. Removing the chassis
- Remove the back cover.
- Slide out the chassis.
- After repair the connecting cables of the chassis should be fixed in the original way.

ADJUSTMENTS

1.Supply voltage
- Connect a voltmeter between 2135 and earth.
- Adjust 3106 until the voltmeter indicates 45V.

2. Horizontal sync.
- Short circuit 2502 and earth.
- Adjust 3509 for mechanical mid-position.
- Adjust 3510 until the picture is vertical.
- Remove the short circuit.

3. Vertical sync.
- Adjust 3422 until the picture is still.

4. Preliminary brightness adjustment
- Apply a signal to the video input.
- Brightness control to maximum (3540).
- Contrast control to minimum (3312).
- Adjust preliminary brightness adjustment 3541 until the flyback lines are just not visible.

5. Vertical linearity
- Adjust 3430 until a good linearity is obtained between top and bottom of picture.

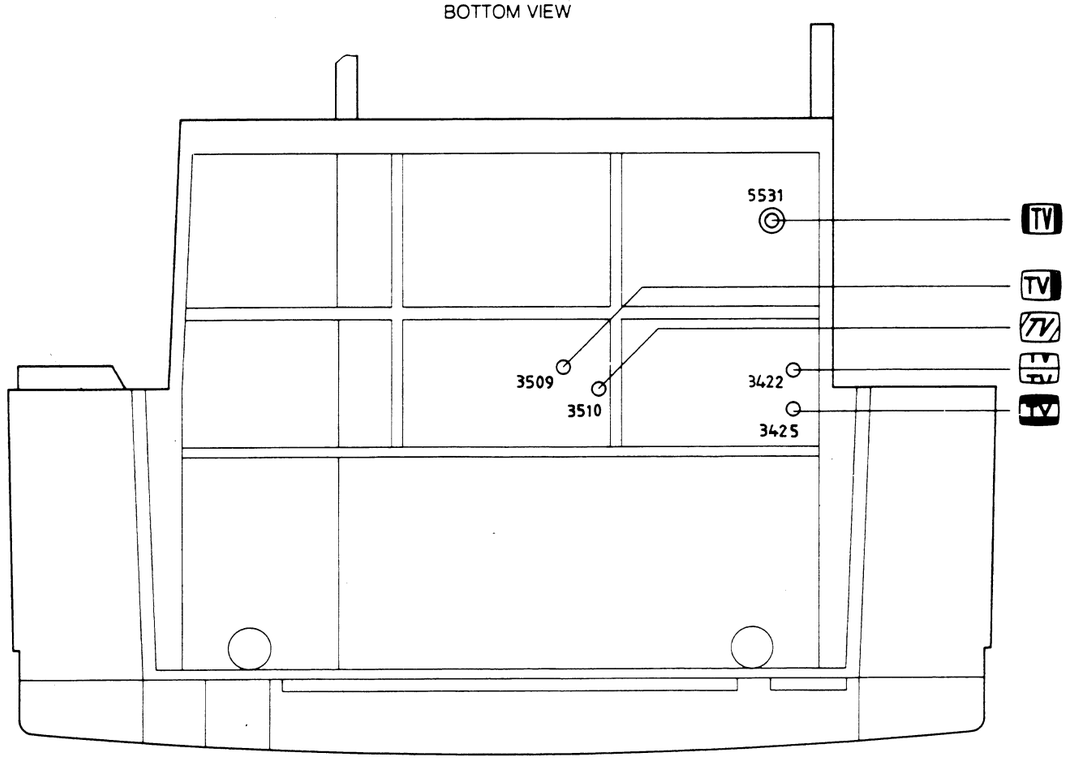
6. Horizontal amplitude
- Adjust 5531 until the horizontal amplitude is at a width of 235 mm.

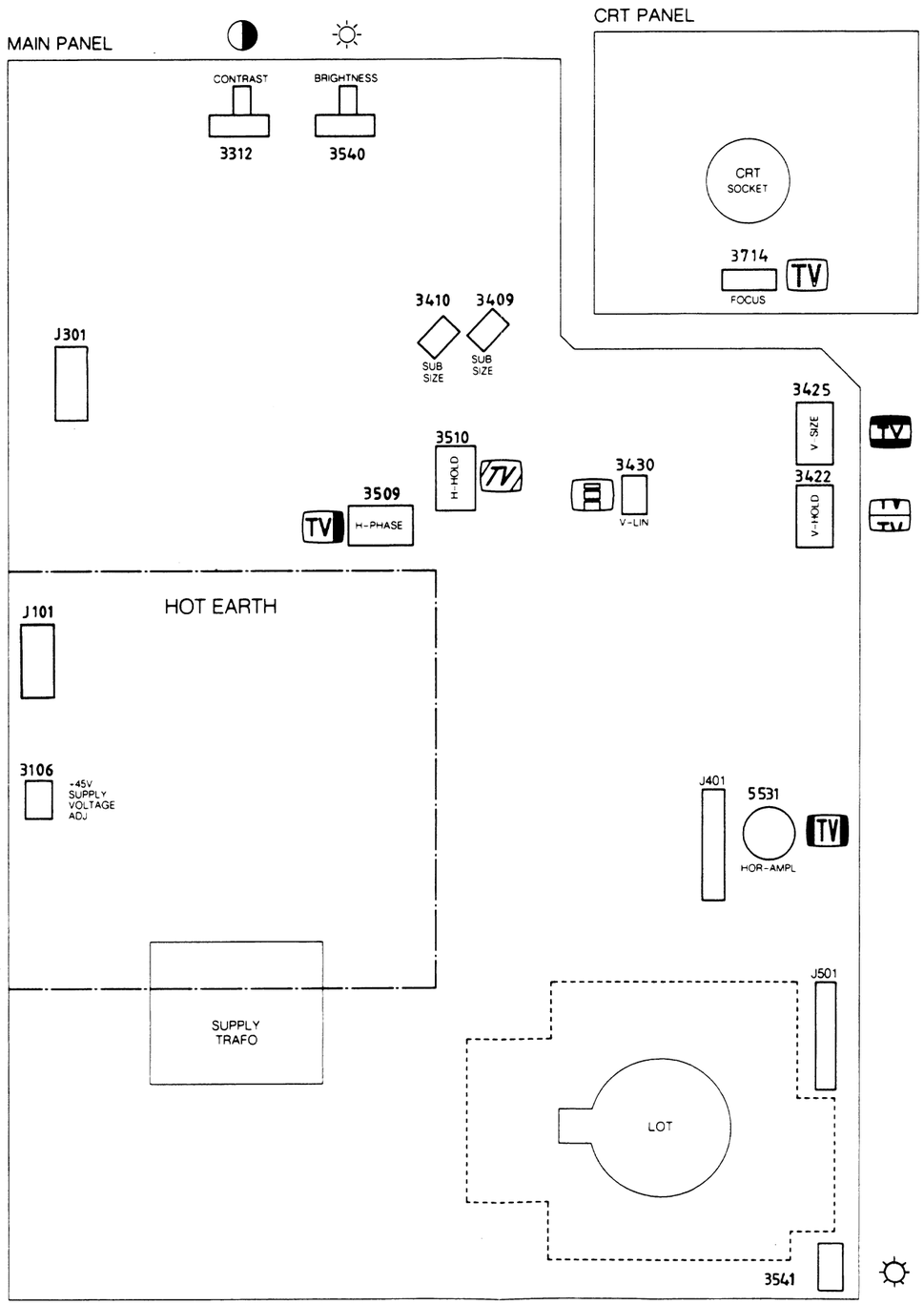
7. Horizontal position
- The horizontal position can be adjusted with 3509.

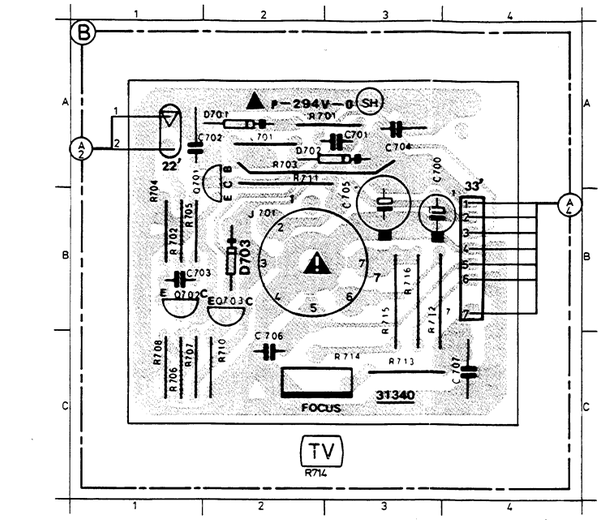
8. Vertical amplitude
- Adjust until the vertical amplitude is at a height of 178 mm by :
  - •3425 (59.94 Hz)
  - •3410 (70.09 Hz)
  - •3409 (70.08 Hz)

9. Focusing
- Optimum adjustment of focusing can be realized with 3714.

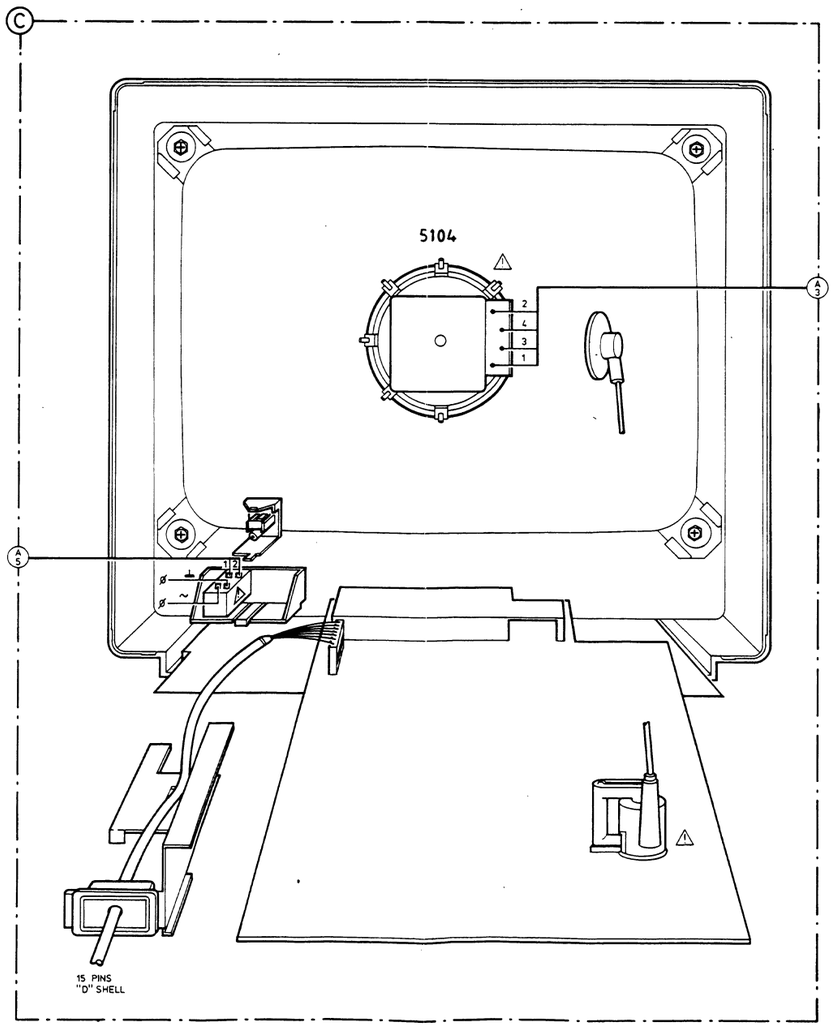
BOTTOM VIEW







C700	A3
C701	A3
C702	A2
C703	B1
C704	A3
C705	B3
C706	C2
C707	C4
D701	A2
D702	A2
D703	B2
J701	B2
L701	A2
Q701	A2
Q702	B1
Q703	B2
R701	A2
R702	B1
R703	A2
R704	B1
R705	B1
R706	C1
R707	C1
R708	C1
R710	C2
R711	A2
R712	B4
R713	C3
R714	C3
R715	B3
R716	B3



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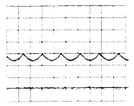
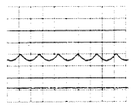


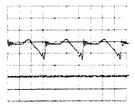
5V/DIV AC
20µS/DIV

2 7105-B



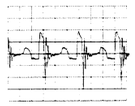
5V/DIV AC
20µS/DIV

3 7102-B



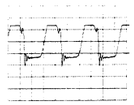
2V/DIV AC
10µS/DIV

4 7102-C



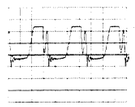
0.5V/DIV AC
10µS/DIV

5 7102-E



2V/DIV AC
10µS/DIV

6 7103-C



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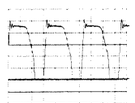
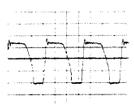
10µS/DIV

7 5103-3



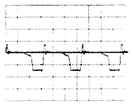
100V/DIV AC
10µS/DIV

8 5103-7



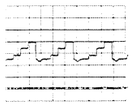
20V/DIV AC
10µS/DIV

10 5103-6



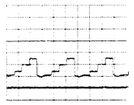
5V/DIV AC
10µS/DIV

15 7303-B



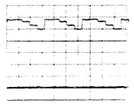
0.5V/DIV AC
10µS/DIV

16 7303-E



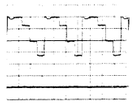
0.5V/DIV AC
10µS/DIV

17 7301-C



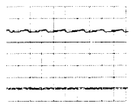
2V/DIV AC
10µS/DIV

18 7306-B



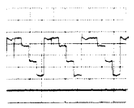
0.5V/DIV AC
10µS/DIV

19 7306-C



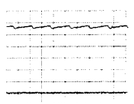
1V/DIV AC
20µS/DIV

20 7306-E



1V/DIV AC
20µS/DIV

21 7305-B



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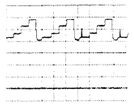
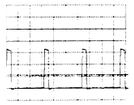
20µS/DIV

22 7305-C



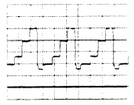
2V/DIV AC
10µS/DIV

23 7307-B



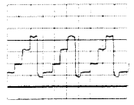
1V/DIV AC
10µS/DIV

24 7308-B



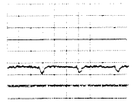
1V/DIV AC
10µS/DIV

25 7308-E



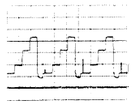
1V/DIV AC
10µS/DIV

26 7309-B



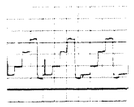
0.2V/DIV AC
10µS/DIV

27 7309-E



1V/DIV AC
10µS/DIV

28 7702-B



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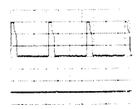
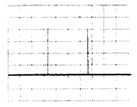
10µS/DIV

29 7702-C



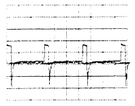
2V/DIV AC
10µS/DIV

30 7702-E



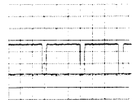
1V/DIV AC
10µS/DIV

32 7701-C



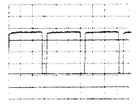
10V/DIV AC
10µS/DIV

33 7703-B



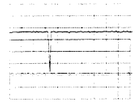
2V/DIV AC
10µS/DIV

34 7401-10



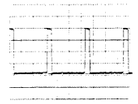
1V/DIV AC
10µS/DIV

35 7401-5



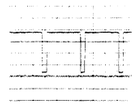
1V/DIV AC
0.63mS/DIV

36 7401-8



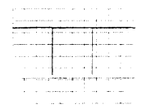
1V/DIV AC
10µS/DIV

37 7401-11



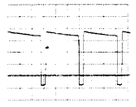
1V/DIV AC
10µS/DIV

38 7401-3



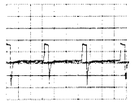
1V/DIV AC
5mS/DIV

39 7401-6



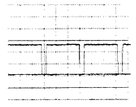
1V/DIV AC
5mS/DIV

40 7501-B



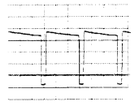
0.5V/DIV AC
10µS/DIV

41 7501-C



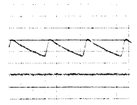
5V/DIV AC
10µS/DIV

42 7502-3



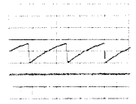
1V/DIV AC
10µS/DIV

43 7502-4



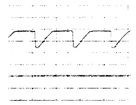
1V/DIV AC
10µS/DIV

44 7502-7



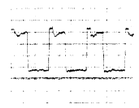
2V/DIV AC
10µS/DIV

45 7502-8



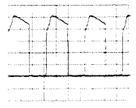
1V/DIV AC
10µS/DIV

46 7502-1



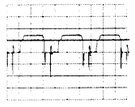
1V/DIV AC
10µS/DIV

47 7503-C



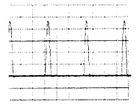
5V/DIV AC
10µS/DIV

49 7531-B



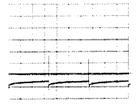
2V/DIV AC
10µS/DIV

50 7531-C



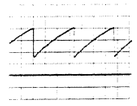
100V/DIV AC
10µS/DIV

51 7421-8



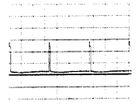
0.5V/DIV AC
5mS/DIV

52 7421-9



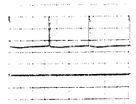
1V/DIV AC
5mS/DIV

53 7421-3



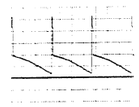
5V/DIV AC
5mS/DIV

54 7421-5



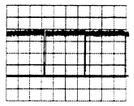
5V/DIV AC
5mS/DIV

55 7421-4



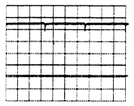
5V/DIV AC
5mS/DIV

56 7421-11



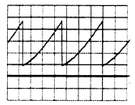
0.2V/DIV AC
5mS/DIV

57 7421-10



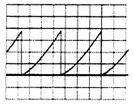
0.5V/DIV AC
5mS/DIV

58 7421-1

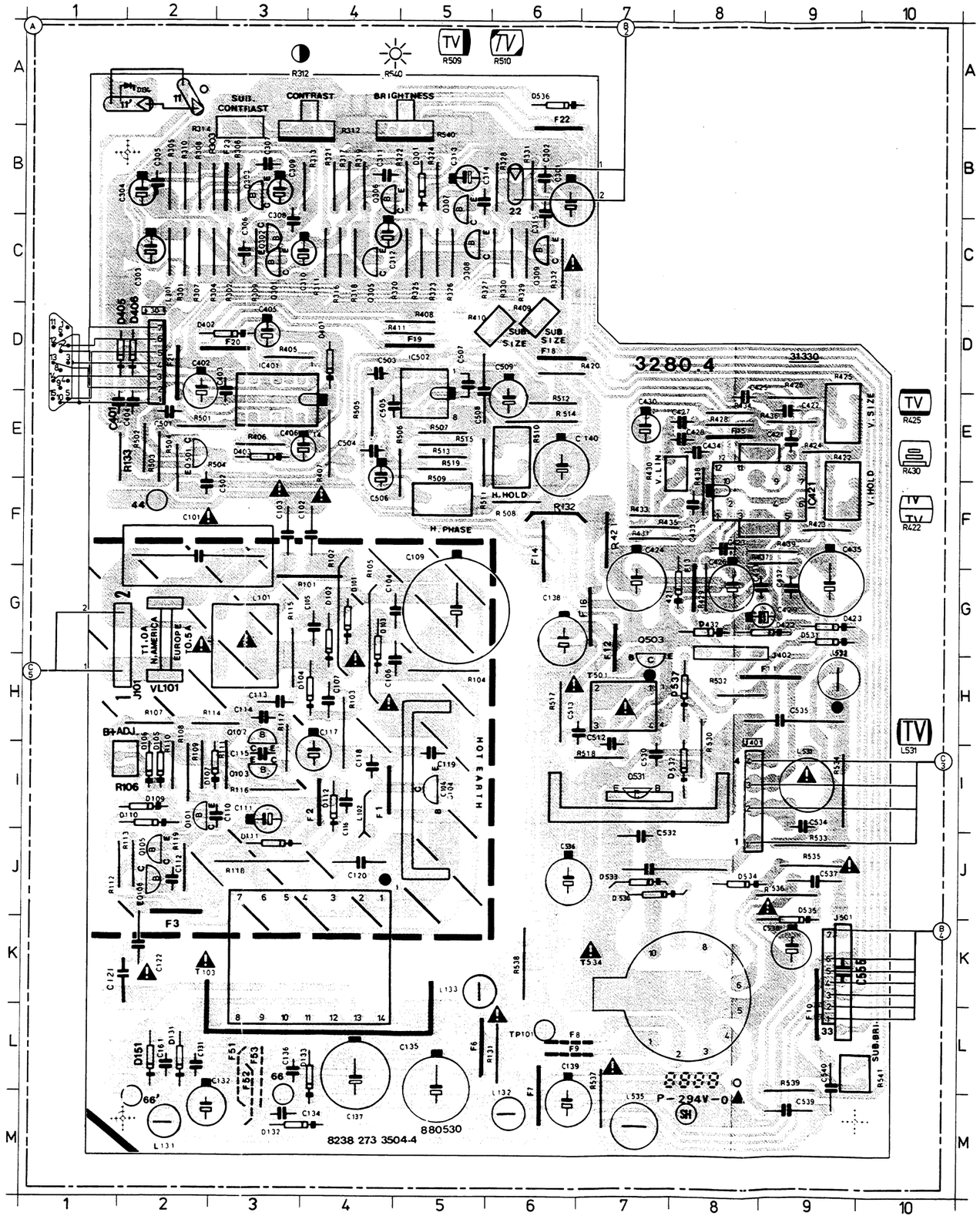


1V/DIV AC
5mS/DIV

59 7421-12



1V/DIV AC
5mS/DIV



F1	I4	C536	J6	R311	C4
F2	I4	C537	J9	R312	A4
F3	K2	C538	K9	R313	B3
F6	L5	C539	M9	R314	B2
F7	M6	C540	L9	R316	C4
F8	L6	C555	K9	R317	B4
F9	L6	D101	G4	R318	C4
F10	L9	D102	G4	R319	B4
F11	H9	D103	G4	R320	C4
F12	G7	D104	H4	R321	B4
F13	G8	D105	I2	R322	B4
F14	F6	D106	I2	R323	C5
F15	E8	D107	I3	R324	B5
F16	G7	D109	I2	R325	C5
F18	D6	D110	I2	R326	C5
F19	D5	D111	J3	R327	C6
F20	D3	D112	I4	R328	B6
F21	D2	D131	L2	R329	C6
F22	A6	D132	M3	R330	C6
F23	B3	D133	L4	R331	B6
F51	L3	D134	A1	R332	C6
F52	L3	D151	L2	R405	D3
F53	L3	D301	B5	R406	E3
C101	F2	D401	D4	R407	E4
C102	F3	D402	D3	R408	D5
C103	F3	D403	E3	R409	D6
C104	G4	D421	G7	R410	D6
C105	G4	D422	G9	R411	D4
C106	H4	D423	G9	R420	D6
C107	H4	D432	G8	R421	F7
C109	G5	D530	J7	R422	E9
C110	I3	D531	G9	R423	F9
C111	I3	D532	I8	R424	E9
C112	J2	D533	J7	R425	D9
C113	H3	D534	J8	R426	D9
C114	H3	D535	J9	R428	E8
C115	I3	D536	A6	R429	G8
C116	I4	D537	H8	R430	E7
C117	I4	D405	D1	R431	F7
C118	I4	D406	D2	R433	F7
C119	I5	IC401	D3	R434	E8
C120	J4	IC421	F9	R435	F7
C121	K2	IC502	D5	R436	E8
C122	K2	J101	H1	R437	F8
C131	L2	J301	D2	R438	E8
C132	L2	J401	H8	R439	F8
C134	M4	J402	H9	R501	E2
C135	L5	J501	K9	R502	E2
C136	L3	L101	G3	R503	E2
C137	L4	L102	I4	R504	E2
C138	G6	L131	M2	R505	E4
C139	M6	L132	M6	R506	E4
C140	E6	L133	K5	R507	E5
C161	L2	L301	C2	R508	F6
C301	B6	L531	I9	R509	F5
C302	B6	L532	H9	R510	E6
C303	C2	L535	M7	R511	E5
C304	B1	Q101	I2	R512	E6
C305	B2	Q102	I3	R513	E5
C306	C3	Q103	I3	R514	E6
C307	B3	Q104	I5	R515	E5
C308	B3	Q105	J2	R517	H6
C309	B3	Q106	J2	R518	I6
C310	C3	Q301	C3	R519	E5
C311	B4	Q302	C3	R530	H8
C312	C4	Q303	B3	R532	H8
C313	B5	Q305	C4	R533	J9
C314	B5	Q306	B4	R534	I9
C315	B6	Q307	B5	R535	J9
C401	E1	Q308	C5	R536	J9
C402	D2	Q309	C6	R537	M7
C403	D3	Q501	E2	R538	K6
C404	E2	Q503	G7	R539	M9
C405	D3	Q531	I7	R540	B5
C406	E3	R101	G4	R541	L10
C421	E9	R102	F4	T103	K2
C422	E9	R103	H4	T501	H7
C423	F8	R104	H5	T534	K7
C424	F7	R105	F4	P101	L6
C425	D8	R106	I1	VL101	H2
C426	F8	R107	H2		
C427	E7	R108	I2		
C428	E7	R109	I2		
C429	G8	R110	I2		
C430	E7	R111	I3		
C431	G8	R112	J1		
C432	G9	R113	J2		
C433	F8	R114	H3		
C434	E8	R115	G3		
C435	F9	R116	I3		
C501	E2	R117	I3		
C502	F2	R118	J3		
C503	D4	R119	J2		
C504	E4	R131	L6		
C505	E4	R132	F6		
C506	E4	R133	E1		
C507	D5	R301	C2		
C508	D5	R302	C3		
C509	D6	R303	B2		
C512	H7	R304	C2		
C513	H6	R305	B2		
C530	I7	R306	B3		
C532	J7	R307	C2		
C533	J7	R308	B2		
C534	I9	R309	C3		
C535	H9	R310	B2		

Circuit diagram

15 PIN "D" SHELL CONNECTOR M110

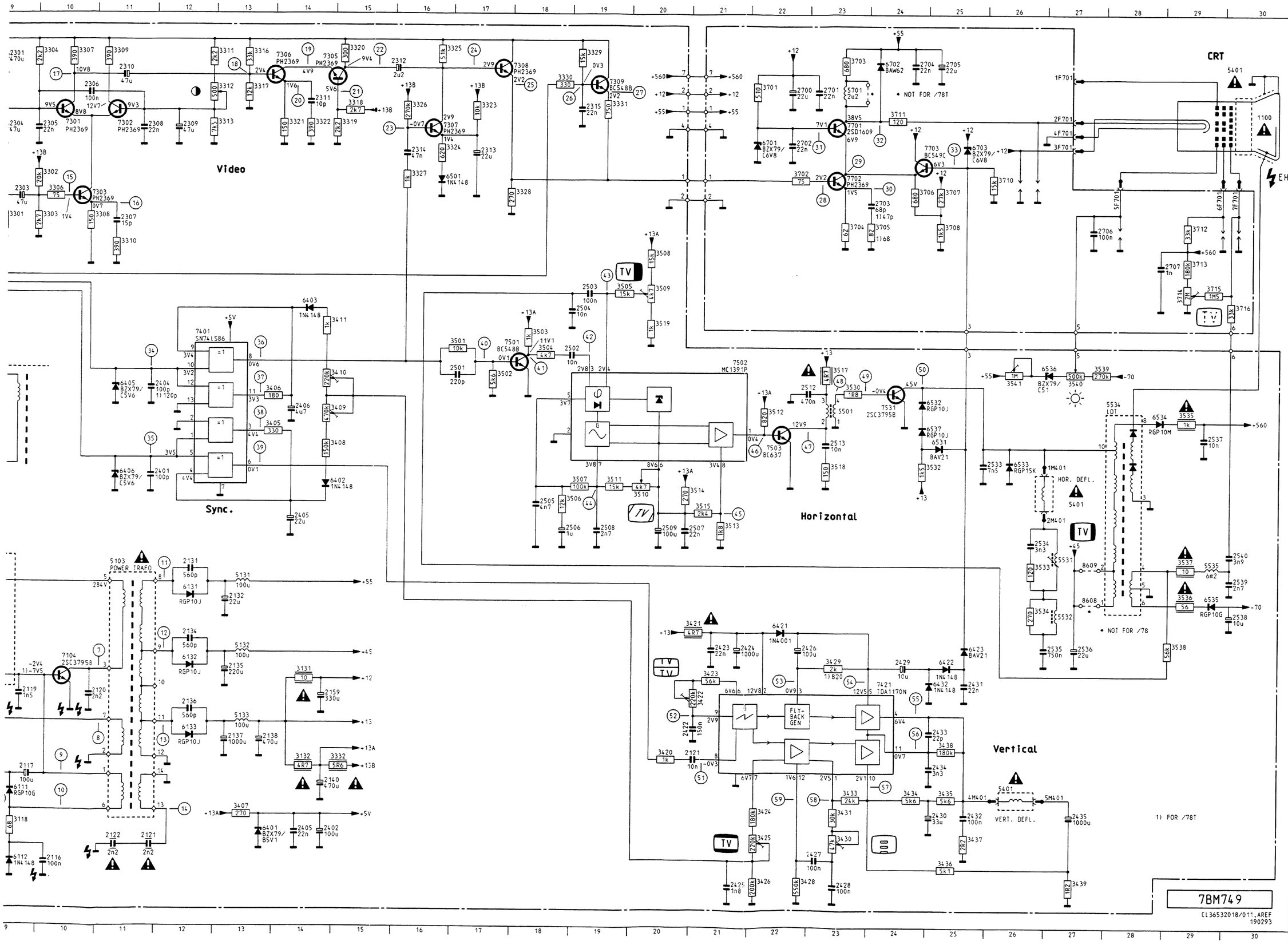
6F301 6J301 VIDEO
7F301 7J301 VIDEO RETURN
4F301 4J301 GND (SHIELD)
5F301 5J301 SELF TEST
2F301 2J301 HOR. SYNC.
3F301 3J301 VERT. SYNC.
1F301 1J301

Video

Power supply

Sync.

Horizontal



1100	B30	3119	M 5	5534	G28	
1101	I 3	3131	K14	5535	J29	
2101	J 4	3132	M14	5701	B23	
2102	J 5	3133	G 3	6101	J 6	
2103	J 5	3301	D 9	6102	J 6	
2104	J 6	3302	C10	6103	J 7	
2105	J 6	3303	D10	6104	J 7	
2106	J 7	3304	A10	6105	M 3	
2107	J 7	3305	B 8	6106	M 3	
2108	G 6	3306	C10	6107	O 4	
2109	G 6	3307	A10	6109	N 6	
2109	K 8	3308	D10	6110	L 7	
2110	M 4	3309	A11	6111	M 9	
2111	M 5	3310	D11	6112	O 9	
2112	O 6	3311	A13	6131	J12	
2113	M 7	3312	B13	6132	K12	
2114	M 7	3313	B13	6133	L12	
2115	N 7	3316	A13	6134	G 2	
2116	O10	3317	B13	6401	N13	
2117	M 9	3318	B15	6402	H14	
2119	L 9	3319	B15	6403	E14	
2120	L10	3320	A15	6405	G11	
2121	M21	3321	B14	6406	H11	
2121	N11	3322	B14	6421	K22	
2122	N11	3323	B17	6422	K25	
2131	J12	3324	C16	6423	K25	
2132	J13	3325	A16	6432	L25	
2134	K12	3326	B16	6501	C16	
2135	K13	3327	C16	6531	H25	
2136	L12	3328	C18	6532	G24	
2137	M13	3329	A19	6533	H26	
2138	M13	3330	A18	6534	G28	
2140	M14	3331	B19	6535	J29	
2159	L14	3332	M15	6536	F27	
2301	A 9	3405	G13	6537	G24	
2302	A 8	3406	G13	6701	C22	
2303	C 9	3407	N13	6702	A24	
2304	B 9	3408	G14	6703	C25	
2305	B10	3409	G14	7101	N 4	
2306	B10	3410	F14	7102	M 8	
2307	D11	3411	E14	7103	N 9	
2308	B11	3420	M20	7104	K10	
2309	B12	3421	K21	7105	N 6	
2310	A11	3422	L21	7106	N 5	
2311	B14	3423	K21	7301	B10	
2312	A16	3424	N22	7302	B11	
2313	C17	3425	N22	7303	C10	
2314	C16	3426	O22	7305	A15	
2315	B19	3428	O22	7306	A13	
2401	H11	3429	K23	7307	B16	
2402	N14	3430	N23	7308	A17	
2404	G11	3431	N23	7309	B19	
2405	I 4	3433	M23	7401	F12	
2405	N14	3434	M24	7421	L24	
2406	G14	3435	M25	7501	F18	
2422	L20	3436	O25	7502	F21	
2423	K21	3437	N25	7503	H22	
2424	K21	3438	M25	7531	G24	
2425	O21	3439	O27	7701	B23	
2426	K22	3501	F17	7702	C23	
2427	N23	3502	F17	7703	C24	
2428	O23	3503	F18	8608	J27	
2429	K24	3504	F18	8609	J27	
2430	N25	3505	E19			
2431	L25	3506	H18			
2432	N25	3507	H19			
2433	L25	3508	D20			
2434	M25	3509	E20			
2435	N27	3510	H20			
2501	F17	3511	H19			
2502	F18	3512	G22			
2503	E19	3513	I21			
2504	E19	3514	H20			
2505	I18	3515	I21			
2506	I18	3517	F23			
2507	I20	3518	H23			
2508	I19	3519	E20			
2509	I20	3530	G23			
2512	G22	3530	G23			
2513	H23	3532	H24			
2533	H26	3533	J26			
2534	I26	3534	J26			
2535	K27	3535	G29			
2536	K27	3536	J29			
2537	G29	3537	J29			
2538	J30	3538	K29			
2539	J30	3539	F27			
2540	I30	3540	F27			
2700	B22	3541	F26			
2701	B23	3701	A22			
2702	C22	3702	C22			
2703	D24	3703	A23			
2704	A24	3704	D23			
2705	A25	3705	D24			
2706	D27	3706	C24			
2707	E28	3707	C25			
3100	J 5	3708	D25			
3101	G 7	3710	C26			
3102	I 5	3711	B24			
3103	K 9	3712	D29			
3104	G 7	3713	D29			
3104	K 8	3714	E29			
3105	K 6	3715	E29			
3106	N 3	3716	E30			
3107	N 3	5101	J 4			
3108	L 5	5103	J11			
3109	L 4	5131	J13			
3110	L 5	5132	K13			
3111	M 6	5133	L13			
3112	N 6	5301	C 9			
3113	N 6	5401	M26			
3114	N 7	5401	H27			
3115	K 7	5401	A30			
3116	N 8	5501	G23			
3117	M 9	5531	I27			
3118	N 9	5532	J27			

PARTS ON PCB

1101⚠	4822 070 35001	FUSE 0.5A

Capacitors

2101⚠	4822 121 51265	470nF 250V
2102⚠	4822 122 40602	1nF 400V
2103⚠	4822 122 40602	1nF 400V
2104	4822 122 40348	2.2nF 1KV
2105	4822 122 40348	2.2nF 1KV
2109	4822 124 42017	47F 20% 400V
2110	5322 122 32311	470pF 10% 100V
2111	4822 124 40763	2.2F 100V
2112	4822 122 10258	22nF 50V
2113	4822 121 41678	100nF 10% 40V
2114	5322 122 32052	680pF 10% 100V
2115	5322 122 32334	220pF 10% 100V
2116	4822 121 41678	100nF 10% 40V
2117	4822 124 42145	100F 20% 25V
2119	4822 122 33857	1.5nF 10% 50V
2120	4822 122 40348	2.2nF 1KV
2121⚠	4822 122 33652	2.2nF 20% 400V
2122⚠	4822 122 33652	2.2nF 20% 400V
2131	4822 126 11104	560pF 10% 500V
2132	4822 124 23442	22F 20% 100V
2134	4822 122 40425	560pF 10% 500V
2135	4822 124 42164	220F 20% 63V
2136	4822 126 11104	560pF 10% 500V
2137	4822 124 41512	1000F 25V
2138	4822 124 40198	470F 20% 16V
2139	4822 124 40849	330F 20% 16V
2140	4822 124 40198	470F 20% 16V
2301	4822 124 40198	470F 20% 16V
2302	4822 122 10258	22nF 50V
2303	4822 124 22681	47F 20% 16V
2304	4822 124 22056	47F 16V
2305	4822 122 10258	22nF 50V
2306	4822 121 43513	100nF 100V
2307	4822 122 31823	15pF 2% 100V
2308	4822 126 10757	22nF 20% 50V
2309	4822 124 22056	47F 16V
2310	4822 124 22681	47F 20% 16V
2311	4822 126 10851	10pF 50V
2312	4822 124 40244	2.2F 20% 63V
2313	5322 124 41431	22F 20% 35V
2314	4822 121 41927	47nF 10% 100V
2315	4822 122 10258	22nF 50V
2401	4822 126 11099	100pF 5% 50V
2402	5322 124 10617	100F 20% 16V
2403	4822 122 10258	22nF 50V
2404	4822 126 11099	100pF 5% 50V
2405	5322 124 41431	22F 20% 35V
2406	4822 124 40246	4.7F 20% 63V
2421	4822 121 51293	10nF 10% 100V
2422	4822 121 42636	150nF 10% 63V
2423	4822 126 10757	22nF 20% 50V
2424	4822 124 42172	1000F 16V
2425	5322 122 32777	1.8nF 10% 100V
2426	5322 124 10617	100F 20% 16V
2427	4822 121 41678	100nF 10% 40V
2428	4822 121 41678	100nF 10% 40V
2429	4822 124 23539	10F 20% 50V
2430	4822 124 40272	33F 20% 16V
2431	4822 126 10757	22nF 20% 50V
2432	4822 121 41678	100nF 10% 40V
2433	5322 122 32143	22pF 100V
2434	4822 122 30099	3.3nF 10% 100V
2435	4822 124 40214	1000F 20% 25V
2501	5322 122 32334	220pF 10% 100V
2502	4822 121 51293	10nF 10% 100V
2503	4822 121 43513	100nF 100V
2504	4822 121 51293	10nF 10% 100V
2505	4822 122 40266	4.7 nF 50V
2506	4822 124 22669	1F 20% 50V
2507	4822 122 10258	22nF 50V
2508	5322 121 54065	2.7nF 1% 160V
2509	4822 124 22678	100F 20% 16V
2512	5322 121 43077	470nF 10% 63V
2513	4822 121 51293	10nF 10% 100V
2533	4822 121 51266	7.5nF 630V
2534	4822 122 33954	3.3nF 100V
2535	4822 121 51267	750nF 100V
2536	4822 124 23442	22F 20% 100V
2537	4822 122 32018	10nF 80% 1kV
2538	4822 124 42147	10F 20% 100V
2539	4822 121 51464	2.7nF 5% 400V
2540	4822 121 42071	3.9nF 10% 400V
2700	4822 124 22679	22F 20% 16V
2701	4822 122 10258	22nF 50V
2702	4822 122 10258	22nF 50V
2703	4822 122 31349	68pF 2% 100V
2704	4822 121 41922	22nF 10% 250V
2705	4822 124 23442	22F 20% 100V
2706	4822 121 43513	100nF 100V
2707	4822 122 33352	1nF 10% 1KV

Resistors

3100	4822 053 21514	510k 5% 0.5W for /05T
3102	4822 113 80566	427 5% 2W
3103	4822 050 23904	390k 1% 0.6W
3103	4822 051 53904	390k 1% 0.125W /05T
3104	4822 050 23904	390k 1% 0.6W
3105	4822 113 80566	427 5% 2W
3106	4822 105 11023	1k potmeter
3107	4822 050 23902	3k9 1% 0.6W
3108	4822 050 21202	1k2 1% 0.6W
3109	4822 050 25602	5k6 1% 0.6W
3110	4822 050 21809	182 1% 0.6W
3111	4822 050 28202	8k2 1% 0.6W
3112	4822 050 23902	3k9 1% 0.6W
3113	4822 050 28201	8202 1% 0.6W
3114	4822 050 25602	5k6 1% 0.6W
3115	4822 050 26801	6802 1% 0.6W
3116	4822 050 24702	4k7 1% 0.6W
3117	4822 050 21009	102 1% 0.6W
3118	4822 116 81822	682 5% 1W
3119	4822 050 22201	2202 1% 0.6W
3131⚠	4822 052 10109	102 5% 0.33W
3132⚠	4822 052 10478	427 5% 0.33W
3133	4822 050 21202	1k2 1% 0.6W
3301	4822 050 27509	752 1% 0.6W
3302	4822 050 22003	20k 1% 0.6W
3303	4822 050 22702	2k7 1% 0.6W
3304	4822 050 22202	2k2 1% 0.6W
3305	4822 050 26802	6k8 1% 0.6W
3306	4822 050 27509	752 1% 0.6W
3307	4822 050 23901	3902 1% 0.6W
3308	4822 050 21501	1502 1% 0.6W
3309	4822 050 23901	3902 1% 0.6W
3310	4822 050 23901	3902 1% 0.6W
3311	4822 050 22202	2k2 1% 0.6W
3312	4822 100 11994	5002 potmeter
3313	4822 050 27502	7k5 1% 0.6W
3316	4822 050 23303	33k 1% 0.6W
3317	4822 050 21203	12k 1% 0.6W
3318	4822 050 22702	2k7 1% 0.6W
3319	4822 050 22202	2k2 1% 0.6W
3320	4822 050 23001	3002 1% 0.6W
3321	4822 050 21501	1502 1% 0.6W
3322	4822 050 23901	3902 1% 0.6W
3323	4822 050 21003	10k 1% 0.6W
3324	4822 050 26201	6202 1% 0.6W
3325	4822 050 25103	51k 1% 0.6W
3326	4822 050 22704	270k 1% 0.6W
3327	4822 050 21002	1k 1% 0.6W
3328	4822 050 22701	2702 1% 0.6W
3329	4822 050 21503	15k 1% 0.6W
3330	4822 050 23301	3302 1% 0.6W
3331	4822 050 27501	7502 1% 0.6W
3332⚠	4822 052 10568	526 5% NFR25
3405	4822 050 23301	3302 1% 0.6W
3406	4822 050 21801	1802 1% 0.6W
3407	4822 050 22701	2702 1% 0.6W
3408	4822 050 21504	150k 1% 0.6W
3409	4822 100 11598	470k potmeter
3410	5322 100 11544	220k potmeter
3411	4822 050 21002	1k 1% 0.6W
3420	4822 050 21002	1k 1% 0.6W
3421⚠	4822 052 10478	427 5% NFR25
3422	4822 101 11003	220k potmeter
3423	4822 050 25603	56k 1% 0.6W
3424	4822 050 21804	180k 1% 0.6W
3425	4822 101 11003	220k potmeter
3426	4822 050 22004	200k 1% 0.6W
3428	4822 050 25604	560k 1% 0.6W
3429	4822 050 22002	2k 1% 0.6W
3430	5322 100 11543	47k potmeter
3431	4822 050 23003	30k 1% 0.6W
3433	4822 050 22403	24k 1% 0.6W
3434	4822 050 25602	5k6 1% 0.6W
3435	4822 050 25602	5k6 1% 0.6W
3436	4822 050 25102	5k1 1% 0.6W
3437	4822 050 22208	222 1% 0.6W
3438	4822 050 21804	180k 1% 0.6W
3439	4822 050 21208	122 1% 0.6W
3501	4822 050 21003	10k 1% 0.6W
3502	4822 050 25602	5k6 1% 0.6W
3503	4822 050 21002	1k 1% 0.6W
3504	4822 050 24702	4k7 1% 0.6W
3505	4822 050 21503	15k 1% 0.6W
3506	4822 050 21203	12k 1% 0.6W
3507	4822 050 21004	100k 1% 0.6W
3508	4822 050 21503	15k 1% 0.6W
3509	4822 100 11319	4k7 potmeter
3510	4822 100 11319	4k7 potmeter
3511	4822 050 21503	15k 1% 0.6W
3512	4822 050 28201	8202 1% 0.6W
3513	4822 050 21802	1k8 1% 0.6W
3514	4822 050 22701	2702 1% 0.6W
3515	4822 050 22402	2k4 1% 0.6W
3517⚠	4822 052 10478	427 5% NFR25
3518	4822 050 21501	1502 1% 0.6W
3519	4822 050 21002	1k 1% 0.6W
3530	4822 050 21808	128 1% 0.6W
3532	4822 050 21502	1k5 1% 0.6W
3533	4822 050 21201	1202 1% 0.6W
3534	4822 050 22701	2702 1% 0.6W
3535⚠	4822 052 10102	1k 5% NFR25
3536⚠	4822 052 10569	562 5% NFR25
3537⚠	4822 052 10109	102 5% NFR25
3538	4822 050 23603	36k 1% 0.6W
3538	4822 117 10313	36k 5% 0.5W /05T
3539	4822 050 22704	270k 1% 0.6W
3540	4822 100 11993	500k potmeter
3541	4822 100 11851	1M potmeter
3701	4822 050 25101	5102 1% 0.6W
3702	4822 050 27509	752 1% 0.6W
3703	4822 116 80572	6802 10% 3W
3704	4822 050 26209	622 1% 0.6W
3705	4822 050 28209	822 1% 0.6W
3706	4822 050 26801	6802 1% 0.6W
3707	4822 050 22703	27k 1% 0.6W
3708	4822 050 21502	1k5 1% 0.6W
3710	4822 050 11503	15k 1% 0.4W
3711	4822 050 21201	1202 1% 0.6W
3712	4822 050 23303	33k 1% 0.6W
3713	4822 050 21804	180k 1% 0.6W
3714	4822 101 20727	2M potmeter
3715	4822 050 21505	1M5 1% 0.6W
3716	4822 050 23303	33k 1% 0.6W

Miscellaneous

5101	4822 157 53453	line coil
5103⚠	4822 146 21316	SMPS transformer
5131	4822 157 52234	100H
5132	4822 157 52234	100H
5133	4822 157 52234	100H
5301	4822 157 52489	0.33H
5501	4822 157 53451	driver transformer
5531	5322 156 11131	width coil
5532	4822 157 53456	line coil
5534⚠	4822 140 10345	line output transformer
5535	4822 157 53455	drum coil

Diodes

6101	4822 130 31603	1N4006GP
6102	4822 130 31603	1N4006GP
6103	4822 130 31603	1N4006GP
6104	4822 130 31603	1N4006GP
6105	4822 130 30621	1N4148
6106	4822 130 34281	BZX79-F15
6107	4822 130 34278	BZX79-F6V8
6109	4822 130 34398	BZX79-C24
6110	4822 130 42489	RGP10G
6111	4822 130 42489	RGP10G
6112	4822 130 30621	1N4148
6131	4822 130 31393	RGP10J
6132	4822 130 31393	RGP10J
6133	4822 130 42489	RGP10G
6134	4822 130 32314	CQW11B
6301	4822 130 30621	1N4148
6401	4822 130 34233	BZX79-F5V1
6402	4822 130 30621	1N4148
6403	4822 130 30621	1N4148
6405	4822 130 34173	BZX79-C5V6
6406	4822 130 34173	BZX79-C5V6
6421	4822 130 31438	1N4001
6422	4822 130 30621	1N4148
6423	4822 130 30842	BAV21
6432	4822 130 30621	1N4148
6531	4822 130 30842	BAV21
6532	4822 130 31393	RGP10J
6533	5322 130 31969	RGP15K
6534	4822 130 32148	RGP10M
6535	4822 130 42489	RGP10G
6536	4822 130 34257	BZX79-C51
6537	4822 130 31393	RGP10J
6701	4822 130 34278	BZX79-C6V8
6702	4822 130 30613	BAW62
6703	4822 130 34278	BZX79-C6V8

Transistors

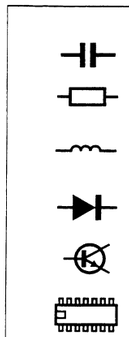
7101	4822 130 44196	BC548C
7102	4822 130 44197	BC558B
7103	4822 130 41344	BC337-40
7104	4822 130 60676	2SC3795B
7105	4822 130 44197	BC558B
7106	4822 130 44196	BC548C
7301	4822 130 41594	PH2369
7302	4822 130 41594	PH2369
7303	4822 130 41594	PH2369
7305	4822 130 41594	PH2369
7306	4822 130 41594	PH2369
7307	4822 130 41594	PH2369
7308	4822 130 41594	PH2369
7309	4822 130 40937	BC548B
7401	5322 209 81636	SN74LS86N
7421	4822 209 83394	TDA1170N
7501	4822 130 40937	BC548B
7502	4822 209 72804	MC1391
7503	4822 130 41041	BC637
7701	4822 130 42743	2SD1609
7702	4822 130 41594	PH2369
7703	4822 130 44246	BC549C

MISCELLANEOUS

SK1	⚠	4822 276 12409	power switch
1100	⚠	4822 131 20234	picture tube M32EBL2WD
5401	⚠	4822 150 10248	deflection unit
		4822 255 70189	CRT socket
		4822 267 30931	2p connector j101
		4822 265 30408	4p connector j401
		4822 267 50817	7p connector j301
		4822 320 11092	HF cable
		4822 321 22899	connection cable with 15p "d" shell
		4822 321 10572	mains cord /00T
		4822 492 71337	spring for fuse
		4822 492 62077	spring for transistors
		5322 390 20011	silicon grease
		4822 736 53072	D.F.U.

MECHANICAL PARTS

4822 430 70531	cabinet
4822 438 10413	back cover /00T
4822 438 10292	back cover /05T/06T/75T
4822 432 92487	cover for adjustment
4822 417 50231	lock for adjustment cover
4822 492 52324	spring for power switch
4822 410 60434	knob power on/off
4822 413 31632	knob contrast/brightness
4822 466 61517	pad front
4822 466 61518	pad rear
4822 404 30888	bracket for power switch
4822 462 10504	pedestal



C = 2...
R = 3 ...
L = 5 ...
T = 5 ...
D = 6 ...
Q = 7 ...
IC = 7 ...

MISC. FUSE = 1 ...
CRT = 1 ...